YACHT CONNECT™

WiFi 4G Coastal Internet Amplifying system
Introducing the new secure Internet connection on your boat with:
YACHT CONNECT
YachtConnect is more than 4G/Wi-Fi antennas, it's also a router and an access point!
World Wide Technology Winner Marine Industry Nov 2014.
MINIATURE ANTENNA 10"
12"
External Sim Card slot

INTEGRATED 3G/4G/WI-FI SYSTEM
To browse the Internet along the coast

USER AND INSTALLATION MANUAL

Serial Number

Version 1.2
Effective February 1st, 2014

TECHNICAL SPECIFICATIONS

Antenna dimensions (diam.x H): 250 x 300 mm / 10x12"
Antenna weight: 1,2 kg / 2,65 lb
Automatic switch from Wi-FI registred networks to 4G.
4G backup WAN function
LTE 4G up to 100 Mbps in download and 50 Mbps in upload
DC- HSPA+ up to 42 Mbps in download and 5.76 Mbps in upload
Four Ethernet ports
2 Diversity (high) performance antennas
SMS reboot function
Android and iOS App for an easy control
Easy installation require only power supply connection 12/24V
UV waterproof resistant Dome

General Feautures

LTE FDD bands: B1/B2/B3/B5/B7/B8/B20
DC- HSPA+/HASPA+/HSPA/UMTS: 850/900/1900/2000 MHz
GSM/GPRS/EDGE: 1900/1800/900/850 MHz
Power Class 3 (23 dBm) for LTE FDD
Power Class 3 (24 dBm) for UMTS
Power Class E2 (26 dBm) for EDGE 1800/1900 MHz
Power Class E2 (27 dBm) for EDGE 850/900 MHz
Power Class 1 (30 dBm) for GSM/GPRS 1900/1800 Mhz
Power Class 4 (33 dBm) for GSM/GPRS 900/850 Mhz

Data

Mode LTE: DL 100 Mbps - 50 Mbps UL
DC-HSPA+: DL 42 Mbps - 5.76 Mbps UL
WCDMA PS: DL 384 Kbps - 384 Kbps UL
EDGE: DL 236,8 Kbps - 236,8 Kbps UL
GPRS: DL 85,6 Kbps - 85,6 Kbps UL
Complies with IEEE 802.11n, IEEE 802.11g and IEEE 802.11b wireless
Complies with IEEE 802.3 and IEEE 802.3u Ethernet standards - I Access point for connecting Wi-FI

INDEX

1. FORWARD. 4
1.1 DELIVERY LETTER 4
1.2 IDENTIFICATION Yacht Connect 4
1.3 WARRANTY. 4
1.4 GENERAL SAFETY RULES 5
1.5 ENVIRONMENT 6

2. PRODUCT DESCRIPTION 6

3. CONTENTS 8
3.1 INSTALLATION. 9
3.2 INSERTING THE SIM CARD 13

4. HOW TO DOWNLOAD CONTROL APP FOR Yacht Connect. . . 14

5. FIRST TIME SETUP 16

1. FORWARD

1.1 DELIVERY LETTER

Welcome: with the installation of this antenna, the world of fast Internet comes on board your boat.
This manual has been drafted in order to help you with the correct installation and operation of the YachtConnect to meet all your requirements.

1.2 IDENTIFICATION

For any communication with Yacht Connect or its service center, always have the **serial number** and the **model** of the YachtConnect shown on page one of the manual, on the packaging and on the router inside the Yacht Connect.

1.3 WARRANTY

YachtConnect guarantees the device against conformity defects for a period of 24 (twenty-four) months from the date of shipment. Warranty is intended as the repair or replacement of the equipment showing conformity defects, with no charge for the materials. In case of conformity defects, the customer is solely entitled to the replacement of the goods with no charge, the warranty specifically does not include any charges whatsoever for labor and any consequential damages should they occur.
The warranty is only valid if the product comes with a valid proof of purchase (receipt or invoice).

The non-conforming product must be sent back to a Service Center or authorized retailer, who, if necessary, will forward it to:

Yacht Connnect
4545 Ponce De Leon Blvd.
Coral Gables, Fl 33146

The serial number must neither be erased nor made illegible, otherwise any warranty will be voided.

⚠ CAUTION

Preserve the installation and user manual with care! Losing the serial number makes the warranty null and void!

The warranty does not apply in case of damage due to carelessness, use or installation not compliant with the instructions given, tampering, product or serial number modification, damage due to accidental causes or to the buyer's negligence.
Moreover, warranty does not apply in case of damage consequent to connections of the equipment to different voltages than those indicated or to sudden voltage variations of the network the equipment is connected to, as well as in case of damage caused by leakage, fire, inductive/electrostatic discharges or discharges due to lightning, use of cables different to those provided, overvoltages or other phenomena not related to the equipment.
Finally, the warranty does not apply to problems caused by the telephone operator, network issues and/or at a WI-FI hotspot.

The parts subject to wear consequent to use such as connection cables, connectors, external parts and plastic supports are covered by a one-year warranty period.
The following are not covered by warranty: periodic monitoring, software updates, settings of the product, maintenance.
After the expiration of the warranty period, any technical support activities will be carried out by charging the customer for the replaced parts, the labor costs and freight charges, according to current rates.
The equipment will be replaced or repaired under warranty only and exclusively on YachtConnect quality control department's approval.

The warranty is provided by:

Yacht Connect
4545 Ponce De Leon Blvd.
Coral Gables, Fl 33146

1.4 GENERAL SAFETY RULES

Carefully read the instructions and follow the recommended precautions to avoid potential hazards and safeguard your health and safety, before carrying out any installation and maintenance. This manual contains the following indications:

⚠ CAUTION

This symbol warns against potential damage to the equipment which could involve the operator's safety.

Failure to comply with the instructions preceded by the above-mentioned keywords (WARNING) can cause serious accidents or even the death of the persons involved.
Moreover, in this Manual, some instructions are given with text in italics, preceded by the word NOTE.
The information and specifications given in this manual are based upon the information available at the moment it is written.
In case of doubts, do not hesitate to contact YachtConnect at the following email:
support@yachtconnect.com

1.5 ENVIRONMENT

Do not throw the appliance away with the normal household waste at the end of its life, but hand it in at an official point for recycling. By doing this, you will help preserve the environment.

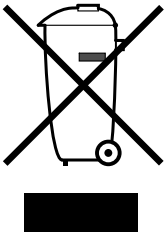

Fig. 1

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2. PRODUCT DESCRIPTION

YachtConnect 3G/4G IT1004 is the new integrated system for surfing the internet with 4G network and Wi-Fi both with the boat in the harbor and along the coast at more than 10 nautical miles offshore. Suitable for all types of boats, ships and yachts where coverage of Cellular networks and Wi-Fi permits. The YachtConnect 4G is also compatible with LTE, 3G systems, UMTS and GPRS data.

NOTE The distance from the coast within which the YachtConnect range depends on the 3G/4G signal coverage from the transmitter of your telephone network operator, on the correct installation of YachtConnect and on its height over the water.

Inside the ASA radome there is a 3G/4G antenna, a Wi-Fi antenna, a specifically constructed router with dedicated software to operate on the boat and an access point which, protected from the elements, to allow you to have a simple and convenient high-speed internet connection on your boat in a few

minutes: simply insert a SIM card (not supplied) into the external slot and you can connect to the system via its Wi-Fi, any type internet device (iPhone, smartphone, iPad, tablet, PC...) through the Yacht Connect App and further connect the system to the Wi-Fi network of the harbor or to the 3G/4G network. In addition, the router inside the radome compact size (250mm/10" in diam-eter and 300mm/12" in height), automatically switches from 3G/4G net-work to the Wi-Fi network (if you have already registered), and vice versa to be certain of a cost effective internet connection without interruption. Finally to provide an extremely easy and convenient manner to connect to the integrated system, YachtConnect also offers an App for iOS and Android.

Fig. 2

3. CONTENTS

The YachtConnect is shipped packed in a cardboard box and sealed with "SEAL OF SAFETY" which acts as a seal for the WARRANTY OF CONTENTS.
Upon receipt, check that:

- the packaging is whole and the warranty is present;
- the supply matches the order specifications;
- there is no damage to the antenna;
- there is the label with SSID, S/N and PASSWORD to access the YachtConnect.

In case of damage or missing parts, immediately inform the Retailer, if possible with appropriate photos.

Fig. 3

INSTALLATION ON SAILBOATS

It is advisable to place the YachtConnect to a maximum height of 27-35 ft on the shaft cross with the YachtConnect stainless steel universal mount (not supplied).
The YachtConnect must be fixed to the support by tightening the screw on the bottom of YachtConnect with a screwdriver (Fig. 6). **IMPORTANT**: Do not install the YachtConnect masthead.

OK WITH
masthead mount
(optional)

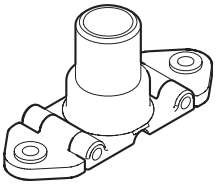
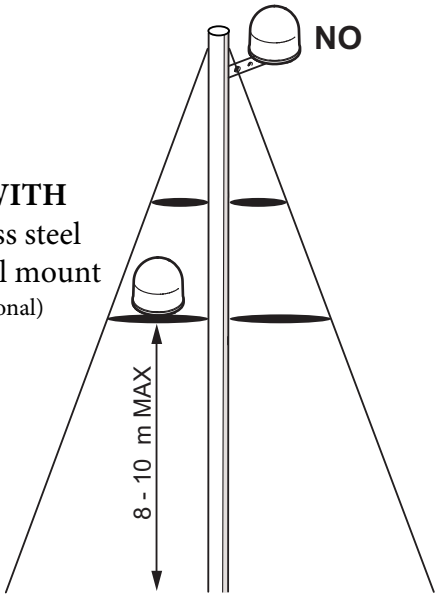


Fig. 5

OK WITH
stainless steel
universal mount
(optional)



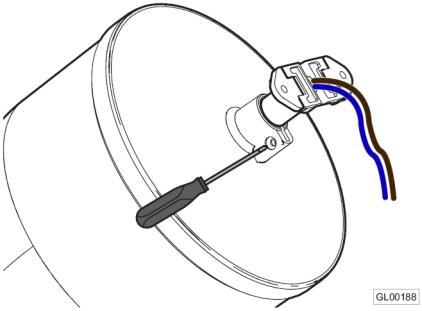


Fig. 6

OK

Coastal Internet Amplifying system

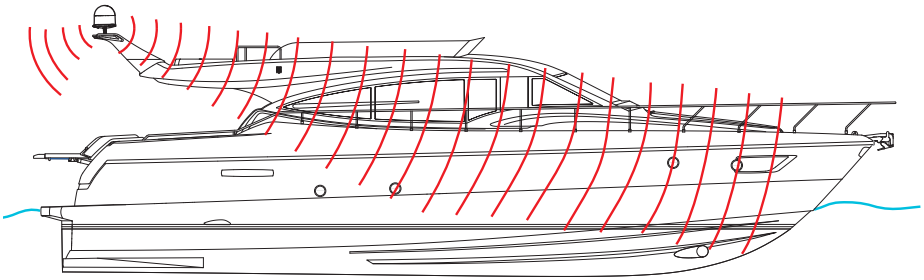


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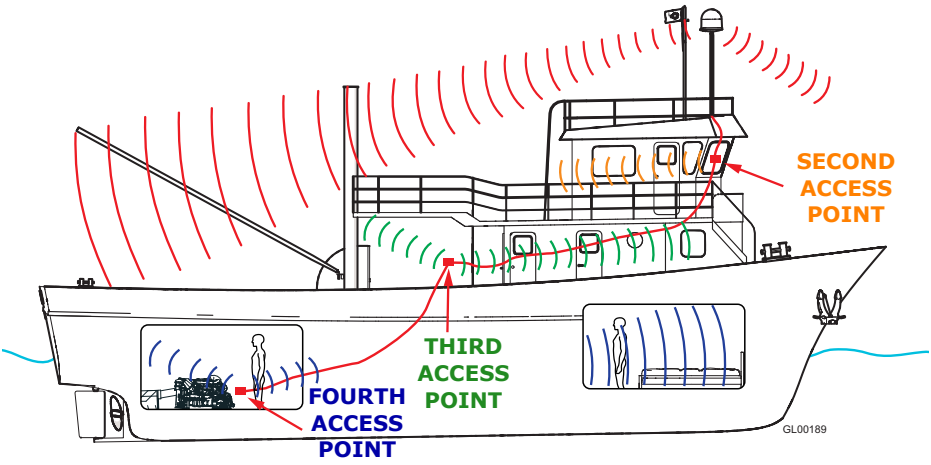
Fig. 7

Installation on motor boats in metal



Use up to 4 access points

Fig. 8

Warning:

- The antenna must be fixed to a base/support by tightening the screw in the base of the YachtConnect by means of a screwdriver (Fig. 6).
- The installation of the YachtConnect near or above a flat metal surface may result in significant reduction of the Wi-Fi and 3G/4G signal strength.
- Do not mount the YachtConnect near metal obstructions that may interfere with the wi-fi signal

On metal crafts, the Wi-Fi signal is blocked, for this reason it is necessary to place a second access point (up to a maximum of 4 APs) inside the boat and connect them with a switch (optional) to the router inside of YachtConnect via an Ethernet cable (optional) (Fig. 9). The access point present inside the radome can be used for the Wi-Fi coverage outside the boat.

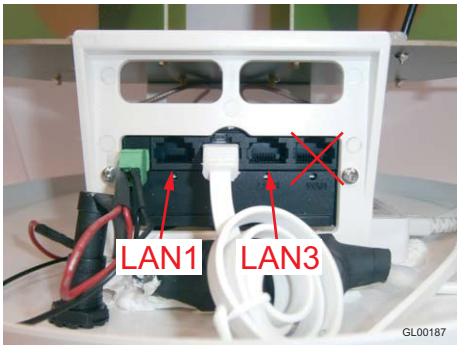


Fig. 9

Electric connections

For the proper functioning of YachtConnect, simply connect the antenna to a 12/ 24 Vdc power supply cable (not provided) according to the following guide-lines.
Connect the brown (positive) and the blue wire (negative) coming out from the base of YachtConnect to the battery through a red/black power cable. The connection can be made by soldering or with a clamp. It is advisable to have this procedure carried out by a technician.
IMPORTANT: A polarity reversal on the power supply will burn the fuse.
The power line (not supplied) which connects the two wires coming out from the base of YachtConnect must have cables with a cross section of 1.5 mm² by a length up to 33 ft, and 2.5 mm² for longer lengths.
WARNING: we recommend placing a switch in the power line, upstream to avoid electricity consumption when the YachtConnect is not used.

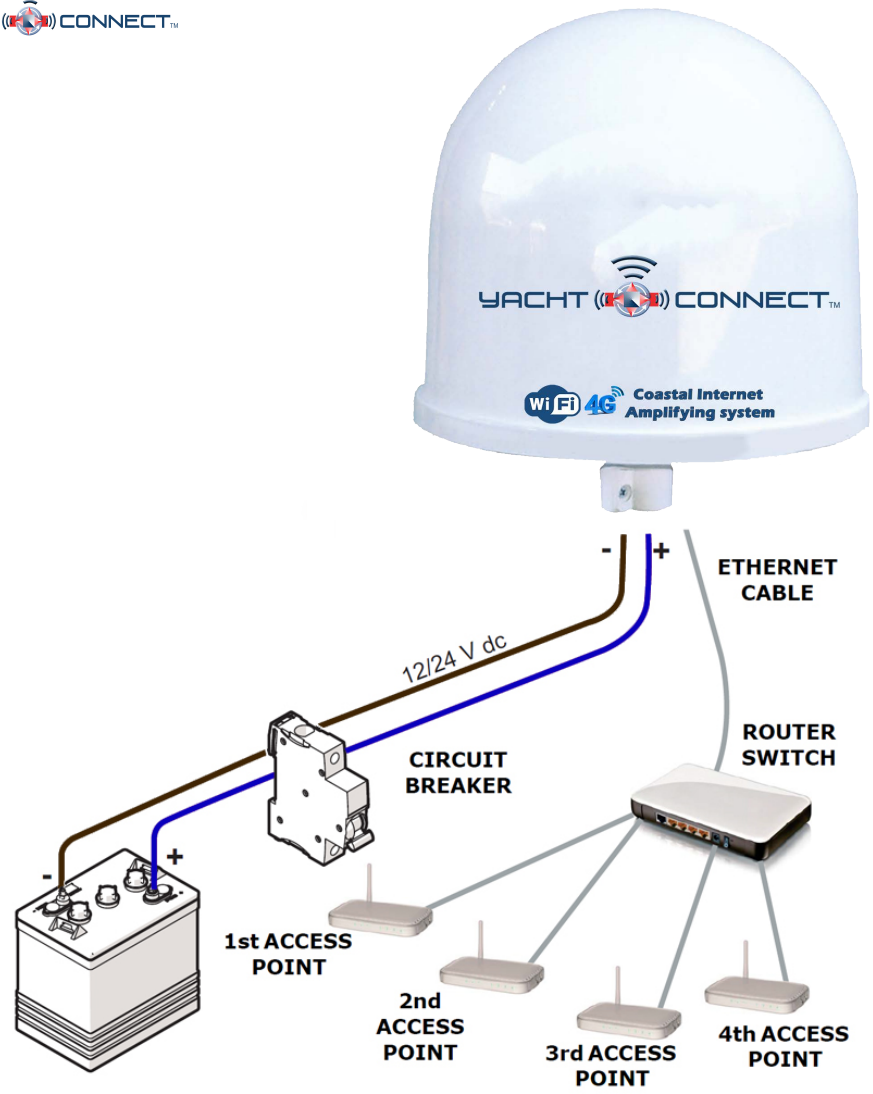


Fig.10

NOTE: In order to receive the signal from the YachtConnect inside metal crafts, up to a maximum of four access points (according to your needs) must be placed inside the boat, which must be linked with a switch to the router inside the via an Ethernet network cable.

3.2 INSERTING THE SIM CARD

Insert the SIM CARD into the upper socket of the "EXTERNAL SLOT" of the YachtConnect, which is located at the bottom of the radome. Insert the SIM card **with the contacts facing down and the cut edge of the SIM facing outward**, as shown in Fig. 11.

NOTE Insert the SIM CARD with YachtConnect off.

IMPORTANT: If the SIM card has a PIN, you must remove the PIN code request before inserting the SIM card into YachtConnect. This can be done via a mobile phone and varies according to the individual mobile phones. Please check the steps in the instructions of your mobile phone, or contact your operator.

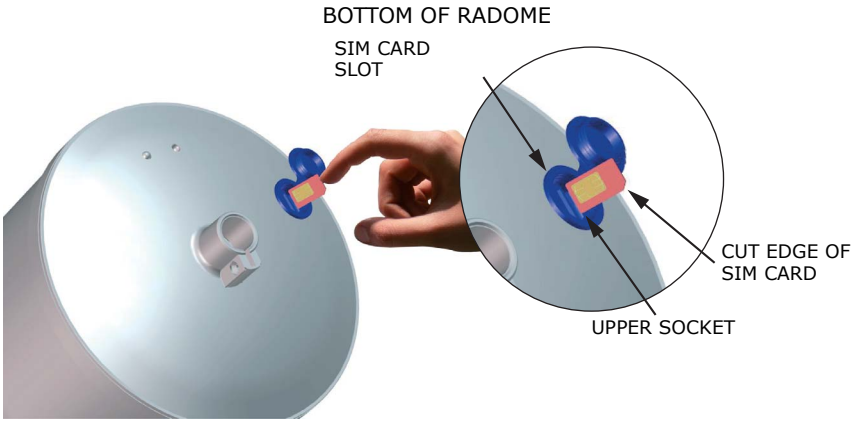


Fig.11

4. HOW TO DOWNLOAD CONTROL APP

Register your YachtConnect with free downloading of the YachtConnect App from the Apple Store for Apple devices or from the Play Store for Android devices.

The App YachtConnect is essential to setup the YachtConnect.

Fig.12

IMPORTANT: The app instructions should be used only by the YachtConnect owner/administrator (using only one device). After following all the steps in the following instructions, all the other internet devices (up to 31) must simply select the wi-fi network of the YachtConnect and enter the password, if required.

After the download, activate the Wi-Fi connection, then connect to the YachtConnect. The network name is "YachtConnect 4GXXX" (Fig. 13); access to the network requires a password. The password is shown on the delivery box and should be written on page 1 of this manual.

Please note YOU MUST CONNECT YOUR IOS OR ANDROID DEVICE TO THE WI-FI NETWORK OF THE YACHTCONNECT AND NOT TO THE HARBOR, OFFICE NETWORK OR OTHERS.

Fig.13

5. FIRST TIME SETUP

The YachtConnect has only one OWNER/administrator who needs to complete the following setup once with a single device.
Open the App and select the language clicking the flag (Fig. 14).

Fig.14

If the Wi-fi is connected, the page is displayed (Fig. 15). If the app does not work, check the presence of connection. In this case, check that the YachtConnect device Wi-Fi connection is enabled and try again.

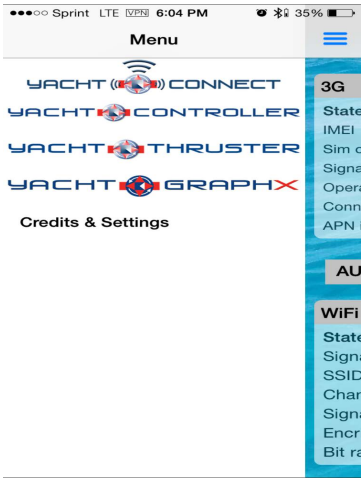


Fig.15

YachtConnect 4G **After selecting the language**, open the drop-down menu on the left and select "**YachtConnect Internet**" (Fig. 16).

Fig.16

When you first open the app you will be asked to record some data, fill in the request form, then click the **Record/Save** button and wait (Fig. 17).

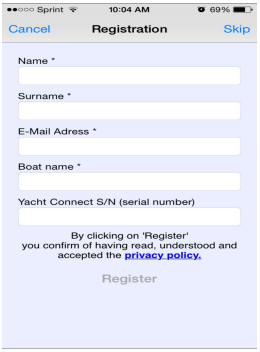


Fig.17

IMPORTANT: Fill in the **YachtConnect S/N (serial number)** field with the **correct code**, located on the on the box or on the router inside the YachtConnect. (Fig. 18).

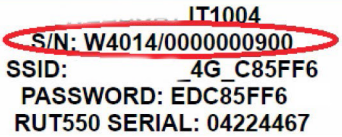


Fig.18

If the YachtConnect S/N (serial number) field is not complete, we can not guarantee immediate assistance.
When you are prompted for a password, enter **admin01** (Fig. 19)

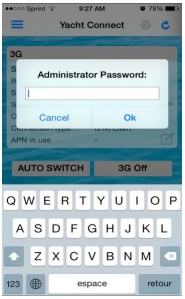


Fig.19

After your registration, the page "YachtConnect control App" will open. **Some information may be missing on the page**, in this case you must refresh it. Click the refresh button at the top of the page (Fig. 20) and wait until the process is complete. This could take a while.

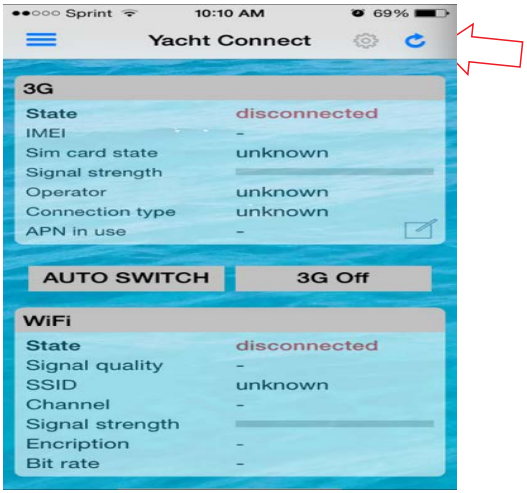


Fig.20

GL00167

Once refreshed, the page will have all the necessary information. You will also notice that the "4G in use" button is green; this means that the 4G is active (Fig. 21).

Fig.21

To continue , click "APN in use" (Fig. 23), click the World icon at the top (Fig. 22) and select your country from the list (Fig. 24); select the APN compatible with your network operator (Fig. 25) and click "OK" to confirm.

Fig.22

Fig.23

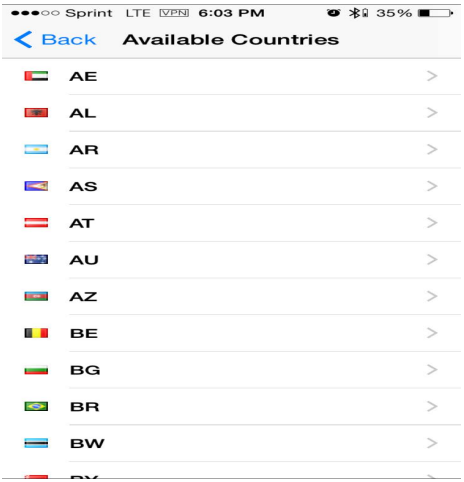


Fig.24

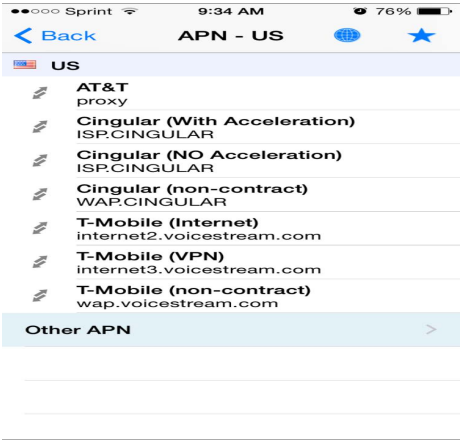


Fig.25

NOTE If your compatible APN is not in the list, click States to go back (Fig. 26) and click APN- (Fig. 27). At this point you will see the "Manual APN setting" screen; click the "arrow" at the top (Fig. 28) and fill in the information requested on the form. Once this is done, click Save (Salva) (Fig. 29). If you do not know the APN of your device, contact your service provider.

Fig.26

GL00173

Fig.27

GL00174

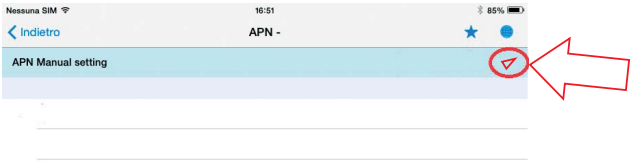


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Fig.28

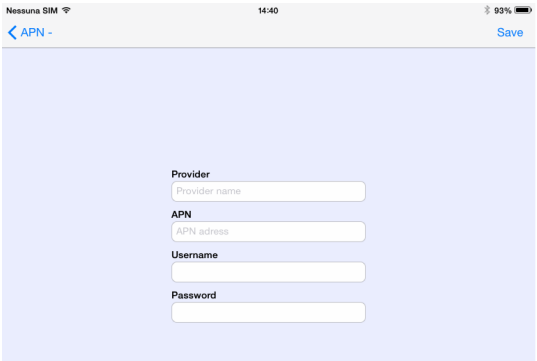

Fig.29

If, by mistake, you select the wrong operator, click Cancel and select again.
In case of an error in the selection of the state, click the world icon to return to the list and select the correct state.
Once all the information provided is correct, click "OK" (Fig. 30) and wait for the setup.
Note: this process could take a few minutes.

Fig.30

Once the configuration was successful, the YachtConnect is ready to surf the internet using the 4G mode.

⚠ CAUTION

If the App is not correctly set, the device cannot browse the internet through the 3G/4G. Some operators have dedicated APN for special contracts; in this case, contact your service provider.

Note: ensure that the App is correct and installed.

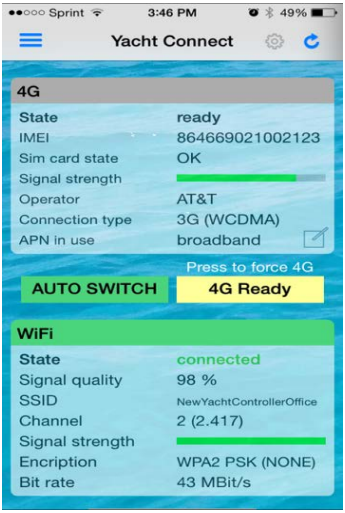

Fig.31

If you want to add a Wi-Fi connection external to the 4G YachtConnect to share with the devices on the boat, click "Scan Wi-Fi Network" (Fig. 32) and wait. A list of available connections will be displayed. Click the name of the Wi-Fi connection required (Fig. 33) and click OK to confirm. Enter the password for the Wi-Fi network selected and click OK/CONNECT (Fig. 34), and wait a few minutes. Now, the information of the Wi-Fi network you have chosen will appear in the Wireless table (Fig. 35).

The "auto switch" button is green and the "4G Ready" is yellow. This means that you are using the selected Wi-Fi network (SSID) to surf the internet.

Fig.32

Fig.33

Fig.34

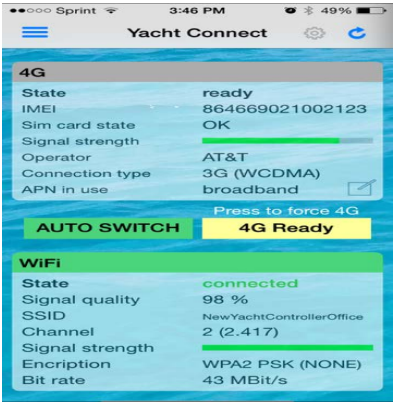

Fig.35

⚠ CAUTION

Some hotspots cannot be used by the YachtConnect because the device is recognized as a router.

Finally, to return to the 3G/4G, click the yellow button "4G Ready". Wait a few minutes for the setup. At the end of the procedure, the "4G Ready" button is green. This means that now you are connected to the internet in 4G mode.

NOTE The use of the external Wi-Fi network has priority over 3G/ 4G to limit service network costs.
YachtConnect automatically switches between the harbor or land Wi-Fi to 3G/4G when the Wi-Fi signal is no longer received.
If the Wi-Fi signal is weak, you can force the use of 3G/4G by clicking on "4G READY" (Fig. 35).

WARNING: if you change the SIM card in the YachtConnect, repeat the procedure from chapter 5.

NOTE : *Specifications may change without notice*

YACHT CONNECT™

Toll Free: 888.898.8608

www.YachtConnect.com

4545 Ponce de Leon Blvd.
Coral Gables Fl. 33146